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☐ 1. Document ID: JP 62265375 A

L6: Entry 1 of 2 File: JPAB Nov 18, 1987

PUB-NO: JP362265375A
DOCUMENT-IDENTIFIER: JP 62265375 A
TITLE: DRY LITHOGRAPHIC INK COMPOSITION

PUBN-DATE: November 18, 1987

INVENTOR-INFORMATION:

NAME	COUNTRY
TANIGUCHI, MASAHARU	
ASANO, MASAYA	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
TORAY IND INC	

APPL-NO: JP61108937
APPL-DATE: May 13, 1986

US-CL-CURRENT: 523/160
INT-CL (IPC): C09D 11/10; C09D 11/10; C09D 11/10

ABSTRACT:

PURPOSE: To provide the title compsn. having excellent printability, flow characteristics and resistance to scumming, containing a specified org. solvent and a rosin-modified phenolic resin or a petroleum resin as a binder resin component.

CONSTITUTION: A resol type phenolic resin obtd. by reacting a phenol with formaldehyde in the presence of an alkaline catalyst is reacted with rosin (e.g., wood rosin), a polyhydric alcohol (e.g., glycerol), a mono- or dibasic acid (e.g., adipic acid) and optionally, vegetable oil (e.g., linseed oil) to obtain a rosin-modified phenolic resin (B) having a weight-average MW of not lower than 50,000 (in terms of PS). 1∼20wt% org. solvent (A) having a b.p. of 180∼350°C and a solubility parameter of 8.5∼10.0 (e.g., Cellosolve acetate) is blended with a binder resin component composed of the component B or a petroleum resin (C) obtd. by using, as a starting material, a fraction having a b.p. of 20∼300°C obtd. by cracking or reforming petroleum and optionally, other resin component, a vehicle component, other additives for ink, etc.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

☐ 2. Document ID: JP 62265375 A

L6: Entry 2 of 2 File: DWPI Nov 18, 1987

DERWENT-ACC-NO: 1988-002734
DERWENT-WEEK: 198801

TITLE: Printing ink compsn. for waterless planographic use - with rosin-modified phenolic resin or petroleum resin as binder

PRIORITY-DATA: 1986JP-0108937 (May 13, 1986)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 62265375 A	November 18, 1987		006	

INT-CL (IPC): C09D 11/10

ABSTRACTED-PUB-NO: JP62265375A
BASIC-ABSTRACT:

The compsn. is characterised by contg. at least one kind of organic solvent with b.pt. of 180-350 deg.C and solubility parameter (delta value) of 8.5-10.0 by 1-20 wt.%, and also rosin-modified phenolic resin or petroleum resin, which have polystyrene-standard wt. ave. mol.wt. of more than 50,000, as a binder resin component.

USE/ADVANTAGE - Due to the use of specified solvent and binder as indispensable components of the compsn., the ink compsn. has improved anti-ground-fouling property and superior printability, as well as flow property.

In an example, ink varnish was prepd. by cooking, (by pts.wt.), 'No.5 Solvent' (RTM: hydrocarbon solvent) 40, 'Hakujun Ama No.7' (RTM:drying oil) 10, rosin-modified phenolic resin having softening temp. of 169 deg.C, acid value of 16 mg/KOH/g and polstyrene-standard wt. ave. mol.wt. of 115,000, which was made from rosin, resol-type p-octylphenol- formaldehyde precondensate, glycerine and adipic acid, 40, and then blending the cooked prod. with dodecane (delta value = 7.8, b.pt. = 216 deg.C) 10. Ink was prepd. by kneading together (by pts.wt.), the ink varnish thus prepd. 85, and ''Seika Fast Yellow 2340'' (RTM:pigment) 15 using three-roll mill.

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☐ 1. Document ID: JP 55027373 A

L7: Entry 1 of 2 File: JPAB Feb 27, 1980

PUB-NO: JP355027373A
DOCUMENT-IDENTIFIER: JP 55027373 A
TITLE: PRINTING INK BINDER

PUBN-DATE: February 27, 1980

INVENTOR-INFORMATION:

NAME	COUNTRY
SHIMIZU, KATSUHISA	
YOSHIMOTO, KEIRYO	
MIYOSHI, HIROSHI	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
ARAKAWA CHEM IND CO LTD	

APPL-NO: JP53101257
APPL-DATE: August 19, 1978

US-CL-CURRENT: 527/604
INT-CL (IPC): C09D 11/10; C08F 299/02; C08G 14/12

ABSTRACT:

PURPOSE: The title binder capable of giving quik drying inks free from causing misting in printing comprising a rosin-modified phenolic resin, obtained by reacting rosins with a higher aliphatic polybasic acid (or anhydride), a phenolic resin (or raw materials), and a polyhydric alcohol, as an active constituent.

CONSTITUTION: A printing ink binder comprising a rosin-modified phenolic resin, obtained by reacting (a) 100 parts by wt. of rosins, e.g. gum or wood rosin, with (b) 1∼20 parts by wt. of a 10∼50C higher aliphatic polybasic acid or its anhydride, (C) 10∼120 parts by wt. of a phenolic resin or its raw materials, e.g. cresol or acetaldehyde, and (d) a polyhydric alcohol in an amount to give 0.6∼1.2 equivalents of hydroxyl groups in (d) per the total carboxyl groups in (a) and (b) under heating, as an active constituent.

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Drawing Desc | Image

☐ 2. Document ID: JP 55027373 A JP 86027425 B

L7: Entry 2 of 2 File: DWPI Feb 27, 1980

DERWENT-ACC-NO: 1980-26123C

DERWENT-WEEK: 198015

TITLE: Resin-modified phenol! resin binder for printing inks - are obtd. by heating rosin(s), aliphatic poly:carboxylic acids, phenol! resins and poly:hydric alcohol(s)

PRIORITY-DATA: 1978JP-0101257 (August 19, 1978)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 55027373 A	February 27, 1980		000	
JP 86027425 B	June 25, 1986		000	

INT-CL (IPC): C08F 299/02; C08G 14/12; C09D 11/10

ABSTRACTED-PUB-NO: JP55027373A
BASIC-ABSTRACT:

The binders contain rosin-modified phenol resins prepd. by heating (a) 100 pts. wt. rosins, (b) 1-20 pts. wt. higher aliphatic polycarboxylic acids or their anhydrides, (c) 10-120 pts. wt. phenol resins or raw materials for prodn. of phenol resin, and (d) polyhydric alcohols in amt. 0.6-1.2 times the equiv. alert in OH in the total of carboxyl gps. of (a) and (b).

The binders are pref. produced by allowing (a) is react with (d), allowing the prod. to react with (b) and then allowing the prod. to react with (c). The varnish for ink is pref. by dissolving 100 pts. wt. present binders in 80-200 pts. wt. of a mixt. of >55 wt. % petroleum solvents (b. pt. 240-330 degrees C) and drying oils. Component (b) includes linseed oil, bean oil. The modified phenol resins have an acid value <40 and a softening pt. >110 degrees C.